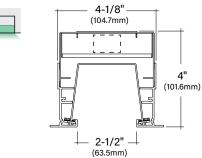
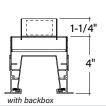
Type _







4" Open Recessed Linear Direct



Key Features

- Extruded aluminum trim with formed cold rolled 18 gauge steel housing and back box
- Room side maintenance for LED system Recessed with a 2 ½" fully luminous aperture
- Small, integral driver option for quick, easy installation
- Light Protection Guard (LPG) covers LEDs for optimal performance
- 5-year limited warranty covers LED, driver and fixture
- ETL listed conforming to UL 1598 in US and CSA 250 in Canada











Example Part #: CRD-830HO-26'-G1-U-EL1-1-0-W

| CRD | - | - | _ | | - | - | | - | - - | - |
|---------|----------------------|--------|----------|---------|--------|------------|---------------------|--------|--------------------|----------|
| HOUSING | CRI, CCT & OUTPUT | LENGTH | MOUNTING | VOLTAGE | DRIVER | CIRCUITING | BATTERY & EMERGENCY | FINISH | FIXTURE OPTIONS | CONTROLS |

| CRI, CCT & OUTPUT ¹ | LENGTH ² | MOUNTING | VOLTAGE |
|--|--|--|--|
| _27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts CRI, CCT & Output pg. 2 | Individual Fixture Continuous Row Length pg. 2 | G1 - 1" (15/16") T Bar G9 - 9/16" T Bar GS - Screw Slot T Bar FL - 3/8" Flange SF - Spackle Flange Mounting pg. 3 | U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 3 |

| | _ | | |
|--|---|---|--|
| DRIVER | CIRCUITING | BATTERY & EMERGENCY ³ | FINISH |
| 4" Housing EL1 - ERP Power (1%, 0-10v, 120v or 277v) Housing with Backbox FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED Optotronic (1%, 0-10v) GL4 - eldoLED Optotronic 347v (1%, 0-10v) ES1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (01%, 0-10v) LH1- Lutron Hi-lume (1%, EcoSystem) Driver pg. 3 | 1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4 | 0 - None _FSB - Factory Select Battery _FSG - Factory Select ALCR _GI - lota ETS DR _GB - Bodine GTD _ILL - lota 10W _PLL - Bodine 10W _E - Emergency Section _N - Night Light Section _L - Life Safety Section | W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 4 |

| FIXTURE OPTIONS ^{4, 5} | CONTROLS |
|--|---|
| OE - Open End (use when coming thru bulkhead) CP - Chicago Plenum DSP - Customer Supplied Battery/Driver/ Sensor FW6 - 6' Flew Whip BA - Buy America(n) Act and/or Build America Buy America Compliant Fixture Options pg. 5 | MOD - Mod options available Controls pg. 5 |

"When specifying CRI, CCT & OUTPUT the first _ is for specifying either 8 - 80CRI, 9 - 90CRI The ending _ are for specifying output, example HO - High Output. 2Individual fixtures come in 2, 3, 4, 5, 6, 7' & 8' lengths. Continuous row come in 1' increments. ³Enter quantity for Battery and Emergency, Example 2PLL. ⁴Open End (**OE**) option for Spackle Flange (**SF**) mounting ONLY. The Open End (**OE**) will be on one side of the fixture. ⁵Compliance is configuration dependent; consult factory for confirmation.

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CRI, CCT & Output

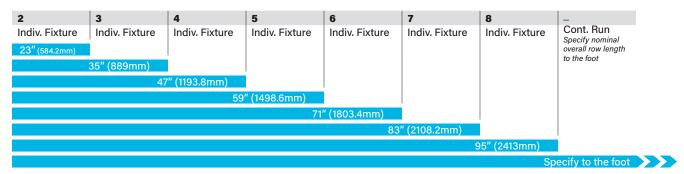
90 CRI = R9≥50

| Custom | Custom Output - Lumens OR Wattage | | | | | | |
|------------|---|---------------------|-----|-------------------|--|--|--|
| CL | Specify CRI, CCT and desired lumens (i.e. CL835500) | | | lumens (i.e. CL8; | 835500) Specify lumens between standard offering listed below. Lumens are specified per color temp | | |
| CW | Specify CRI, CCT and desired wattage (i.e. CW9407) | | | | | | |
| OO ODI | | , | | 3, (| | | |
| 80 CRI | | | | | | | |
| | Color | Output ¹ | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | Lumens/ft | LPW | Watts/ft | | | |
| 830 | 3000K | 500 | 115 | 4.3 | | | |
| 830HO | 3000K | 750 | 116 | 6.5 | | | |
| 830VHO | 3000K | 1000 | 116 | 8.6 | | | |
| 835 | 3500K | 500 | 123 | 4.1 | | | |
| 835HO | 3500K | 750 | 124 | 6.0 | | | |
| 835VHO | 3500K | 1000 | 125 | 8.0 | | | |
| 840 | 4000K | 500 | 128 | 3.9 | | | |
| 840HO | 4000K | 750 | 128 | 5.9 | | | |
| 840VHO | 4000K | 1000 | 128 | 7.8 | | | |
| 90 CRI (/o | | | | | | | |
| | | 1 | 1 | 1 | | | |
| 927 | 2700K | 500 | 97 | 5.2 | | | |
| 927HO | 2700K | 750 | 97 | 7.7 | | | |
| 927VHO | 2700K | 1000 | 100 | 10.0 | | | |
| 930 | 3000K | 500 | 105 | 4.8 | | | |
| 930HO | 3000K | 750 | 105 | 7.1 | | | |
| 930VHO | 3000K | 1000 | 106 | 9.4 | | | |
| 935 | 3500K | 500 | 110 | 4.6 | | | |
| 935HO | 3500K | 750 | 110 | 6.8 | | | |
| 935VHO | 3500K | 1000 | 111 | 9.0 | | | |
| 940 | 4000K | 500 | 107 | 4.7 | | | |
| 940HO | 4000K | 750 | 107 | 7.0 | | | |
| 940VHO | 4000K | 1000 | 108 | 9.3 | | | |

LPW and watts/ft based off 48" fixture size.

Length

- Individual units cannot be joined, end plates are factory installed and cannot be removed
- Continuous Rows are made up of even and odd lengths designed to fall on grid

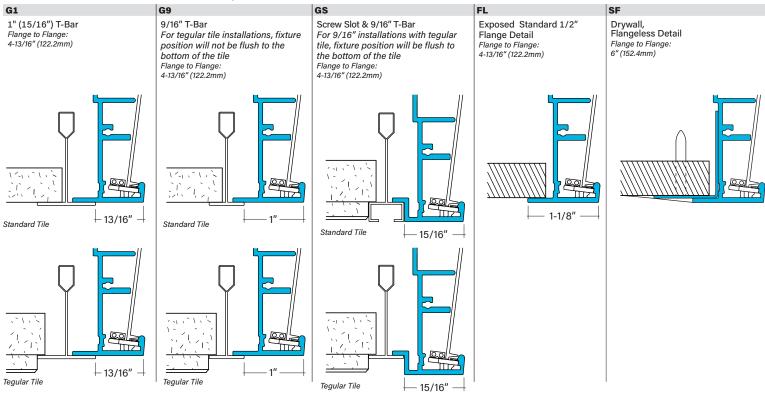


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Mounting

- Individual units cannot be joined, end trims are factory installed and cannot be
- Designed to install into acoustical grid and inaccessible ceilings
- Grid retention brackets to be installed on site and require mechanical attachment
- Each housing contains four grid retention brackets
- Tie off fixture to structure with retention wires
 - Approved for dry/damp location unless otherwise noted



Voltage

- Some CHUTE configurations will not accommodate all voltage options; consult with factory
- For EL1 driver, must specify 120v or 277v

| U | Universal |
|---|-----------|
| 1 | 120 volt |
| 2 | 277 volt |
| 3 | 347 volt |

Driver

- Standard Driver Option = EL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
 Some CHUTE configurations will not accommodate all driver options; consult with factory
- Backbox necessary for all drivers OTHER THAN the EL1

| Backbox necessary for an drivers of their finant the LLI | | | | | |
|---|--|--|--|--|--|
| Integral Driver | | | | | |
| ERP Power 1%, 0-10v, requires 120 or 277 | | | | | |
| iver | | | | | |
| | | | | | |
| Factory Select Driver 1%, 0-10v | | | | | |
| Advance Xitanium 1%, 0-10v | | | | | |
| Advance Xitanium 347v 1%, 0-10v, requires 347v | | | | | |
| eldoLED Optotronic, 1%, 0-10v | | | | | |
| eldoLED Optotronic 347v, 1% 0-10v, requires 347v | | | | | |
| eldoLED ECOdrive 1%, 0-10v, Logarithmic | | | | | |
| eldoLED ECOdrive 1%, 0-10v, Linear | | | | | |
| eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic | | | | | |
| eldoLED SOLOdrive 0.1%, 0-10v, Linear | | | | | |
| | | | | | |
| eldoLED ECOdrive .1%, DALI (logarithmic) | | | | | |
| eldoLED SOLOdrive .1%, DALI (logarithmic) | | | | | |
| eldoLED Optotronic 1%, DEXAL | | | | | |
| S | | | | | |
| Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 | | | | | |
| vers | | | | | |
| ELV 120v only, 0-10v universal | | | | | |
| | | | | | |

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How to specify Circuiting, Battery and Emergency



- Select fixture circuiting from options below
- Some CHUTE configurations will not accommodate all circuiting options, consult with factory

Circuiting

| 1 | Single Circuit |
|---|--------------------------|
| M | Multi Circuit |
| E | Emergency Circuit only |
| N | Night Light Circuit only |



- Battery and emergency options are available in addition to fixture circuit
- Select battery and emergency options below; factory shop drawing required
- Some CHUTE configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

No battery or specific emergency required

Battery

- Select battery section type if required, indicate total QTY. Example 2PL
- 90 minute battery runtime; test button is remote to fixture
- No battery option available for 2' lengths
- Battery operates full length of housing up to 8' on individual fixtures or within continuous row
- For more battery options available, see Pinnacle Resource Guide

| | 0 | No Battery |
|--|--------|---|
| _FSB Factory Select Battery Integral (10w) | | Factory Select Battery Integral (10w) |
| | _FSBST | Factory Select Battery Integral (10w, Self Testing) |
| | _ILL | lota Integral (10w, Lithium, Self Testing) |
| | _IRC | Iota Remote with Conduit (10w) |
| | _PLL | Bodine Integral (10w, Lithium, Self Testing) |
| | PRD | Bodine Remote with Conduit (10w, Dual Flex) |

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Emergency

- Select emergency section type if required, indicate total QTY. Example 1E
- Combine battery and emergency section ordering codes if both options are selected

| _FSG | Factory Select ALCR Emergency Control Device, UNV |
|--|--|
| _GI lota ETS-DR, Emergency Control Device, UNV | |
| _GB | Bodine GTD, Emergency Control Device, 120v or 277v |
| _E | Emergency circuit section |
| _N | Night Light circuit section |
| L | Life Safety circuit section NO THROUGH WIRE |

Battery OR Emergency Ordering Examples

Single circuit, 10w Battery
 Emergency only, 10w Battery
 Single circuit, GTD required
 Ordering Code: 1-1PLL
 Ordering Code: 1-1G

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information
- Closed endcap on recessed fixtures will be painted white, not a specified color. Consult Factory.

| W | White | |
|----|-----------------|--|
| S | Metallic Silver | |
| BL | Textured Black | |
| GR | Graphite | |
| BR | Bronze | |
| CC | Custom Color | |

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pg. 5

Fixture Options

- Additional options to enhance the fixture and finish of the product
- The Open End will only be on one side of the fixture.

| OE | Open End Fixture, use to come thru bulkhead, SF ONLY |
|-----|--|
| CP | Chicago Plenum |
| DSP | Customer Supplied Battery/Driver/Sensor |
| FW6 | 6' Flex Whip |

Domestic content option - compliance is configuration dependent; consult factory for conformation

| BA | Buy America(n) Act and/or Build America Buy America Compliant |
|----|---|
|----|---|

Controls

· Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Controls: MOD Options

- Specify **MOD** in the part number for any of the below options
- Control Options may require specific driver. Refer to the chart below

Consult factory for MOD specification details, pricing, and lead-time information

Ordering Code AWNR

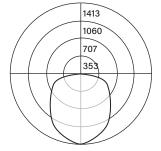
Required Driver OD1, PR1, OL5, PL5

MOD Lutron Athena Connected

Photometrics

Open

ITL93073 CRD-835VHO-4 Catalog # 3983 lm Watts 30.7 W Efficacy 130 LPW



Candela Distribution Horizontal Angle

| Angle | Horizontal Angle | | | | | |
|-------|------------------|------|------|------|------|--|
| | 0 | 22.5 | 45 | 67.5 | 90 | |
| 0 | 1411 | 1411 | 1411 | 1411 | 1411 | |
| 5 | 1410 | 1394 | 1397 | 1393 | 1386 | |
| 10 | 1395 | 1369 | 1360 | 1347 | 1337 | |
| 15 | 1369 | 1332 | 1311 | 1292 | 1280 | |
| 20 | 1335 | 1285 | 1256 | 1228 | 1215 | |
| 25 | 1289 | 1229 | 1191 | 1157 | 1141 | |
| 30 | 1234 | 1164 | 1117 | 1075 | 1055 | |
| 35 | 1169 | 1093 | 1037 | 986 | 964 | |
| 40 | 1095 | 1014 | 946 | 891 | 869 | |
| 45 | 1010 | 927 | 850 | 798 | 782 | |
| 50 | 918 | 833 | 751 | 722 | 716 | |
| 55 | 816 | 733 | 661 | 656 | 656 | |
| 60 | 709 | 627 | 585 | 598 | 603 | |
| 65 | 593 | 521 | 517 | 545 | 552 | |
| 70 | 476 | 421 | 456 | 492 | 500 | |
| 75 | 357 | 341 | 397 | 427 | 428 | |
| 80 | 235 | 272 | 322 | 299 | 272 | |
| 85 | 121 | 193 | 111 | 61 | 46 | |
| 90 | 31 | 60 | 40 | 18 | 0 | |

Luminance Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 17498 | 8801 | 7048 |
| 55 | 17058 | 7119 | 5990 |
| 65 | 16247 | 5991 | 5270 |
| 75 | 14843 | 5147 | 4422 |
| 85 | 11127 | 1692 | 536 |

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP or IAS accredited testing laboratory. Testing conducted at 25°C ambient conditions

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Applications & Certificates

Construction: Extruded aluminium rails and formed cold-rolled 18 gauge steel housing. Highly reflective coextruded acrylic reflector with LED protection guard.

Mounting: CHUTE is designed to install into acoustical grid and inaccessible ceilings. Specify GXG, FLF, SFS for individual, unjoinable units (individual units will fall on-grid). Specify GX, FL, SF for continuous runs (runs designed to fall on-grid). Consult factory for detailed installation instructions.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 146,500 hours and L90 = 45,000 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Lumen Output: Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some CHUTE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard INTEGRAL Driver Option is EL1. All other driver options will be in driver backbox. EL1 designed for use with 120v or 277v only. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 81°F/27°C, preliminary using 4" data. When ND is specified, a spec grade driver will be provided. For more driver options, see Pinnacle Resource Guide. Some CHUTE configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit - For multiple circuiting and zone control, requires factory shop drawing (M), Emergency circuit (E), Life Safety (L) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some CHUTE configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes or for additional custom color and finish options.

Controls: Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard, HO and VHO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 15lbs per 4' fixture.

Warranty: CHUTE LED offered with a 5-year limited warranty. Covers LED, driver and fixture.